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What is claimed is:

- A LSG comprising:
- (a) a polynucleotide of SEQ ID NO:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, or 74, or 5 a variant thereof;
 - (b) a polypeptide expressed by a polynucleotide of SEQ ID NO:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, or 74, or a variant thereof; or
- (c) a polynucleotide which is capable of hybridizing 10 under stringent conditions to the antisense sequence of SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 or 74.
- The LSG of claim 1 wherein the polypeptide comprises SEQ ID NO: 75, 76, 77, 78, 79, 80, 81, 82, 83, or
 84.
 - 3. A method for diagnosing the presence of lung cancer in a patient comprising:
 - (a) determining levels of a LSG of claim 1 in cells, tissues or bodily fluids in a patient; and
 - (b) comparing the determined levels of LSG with levels of LSG in cells, tissues or bodily fluids from a normal human control, wherein a change in determined levels of LSG in said patient versus normal human control is associated with the presence of lung cancer.
- 25 4. A method of diagnosing metastases of lung cancer in a patient comprising:
 - (a) identifying a patient having lung cancer that is not known to have metastasized;
- (b) determining levels of a LSG of claim 1 in a sample 30 of cells, tissues, or bodily fluid from said patient; and
 - (c) comparing the determined LSG levels with levels of LSG in cells, tissue, or bodily fluid of a normal human

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control, wherein an increase in determined LSG levels in the patient versus the normal human control is associated with a cancer which has metastasized.

- A method of staging lung cancer in a patient 5 having lung cancer comprising:
 - identifying a patient having lung cancer;
 - determining levels of a LSG of claim 1 in a sample of cells, tissue, or bodily fluid from said patient; and
- (c) comparing determined LSG levels with levels of LSG in cells, tissues, or bodily fluid of a normal human control, wherein an increase in determined LSG levels in said patient versus the normal human control is associated with a cancer which is progressing and a decrease in the 15 determined LSG levels is associated with a cancer which is regressing or in remission.
 - A method of monitoring lung cancer in a patient for the onset of metastasis comprising:
- (a) identifying a patient having lung cancer that is 20 not known to have metastasized;
 - (b) periodically determining levels of a LSG of claim 1 in samples of cells, tissues, or bodily fluid from said patient; and
 - (c) comparing the periodically determined LSG levels
- 25 with levels of LSG in cells, tissues, or bodily fluid of a normal human control, wherein an increase in any one of the periodically determined LSG levels in the patient versus the normal human control is associated with a cancer which has metastasized.
- 30 A method of monitoring a change in stage of lung cancer in a patient comprising:
 - (a) identifying a patient having lung cancer;

- (b) periodically determining levels of a LSG of claim1 in cells, tissues, or bodily fluid from said patient; and
- (c) comparing the periodically determined LSG levels with levels of LSG in cells, tissues, or bodily fluid of a 5 normal human control, wherein an increase in any one of the periodically determined LSG levels in the patient versus the normal human control is associated with a cancer which is progressing in stage and a decrease is associated with a cancer which is regressing in stage or in remission.
- 10 8. A method of identifying potential therapeutic agents for use in imaging and treating lung cancer comprising screening compounds for an ability to bind to or decrease expression of a LSG of claim 1 relative to the LSG in the absence of the compound wherein the ability of the LSG is indicative of the compound being useful in imaging and treating lung cancer.
 - 9. An antibody which specifically binds a polypeptide encoded by a LSG of claim 1.
- 20 10. The antibody of claim 9 wherein the polypeptide comprises SEQ ID NO: 75, 76, 77, 78, 79, 80, 81, 82, 83 or 84.
- 11. A method of imaging lung cancer in a patient comprising administering to the patient an antibody of 25 claim 9.
 - 12. The method of claim 11 wherein said antibody is labeled with paramagnetic ions or a radioisotope.

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- 13. A method of treating lung cancer in a patient comprising administering to the patient a compound which downregulates expression or activity of a LSG of claim 1.
- 14. A method of inducing an immune response against a 5 target cell expressing a LSG of claim 1 comprising delivering to a human patient an immunogenically stimulatory amount of a LSG polypeptide so that an immune response is mounted against the target cell.
- 15. The method of claim 14 wherein the LSG 10 polypeptide comprises SEQ ID NO:75, 76, 77, 78, 79, 80, 81, 82, 83 or 84.
 - 16. A vaccine for treating lung cancer comprising a LSG of claim 1.